

# Work Order ID 102944

\*102944\*

Page 1

June-12-13 9:17:12 AM

Item ID: D206-559-011

Accept

\*N900040100\*

Setup Start

\*NS1\*

Revision ID:

Stop

\*NS2\*

Item Name: Bearpaw

Start Date: 6/11/13

Start Qty: 1.00

\*1\*

Cust Item ID:

Required Date: 6/11/13

Req'd Qty: 1.00

\*1\*

Customer:

Reference:

Approvals:

Process Plan: ML5

Date: 13-06-13

Tooling:

Date:

Run Start

\*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop

\*NR2\*

Sequence ID/  
Work Center ID

Operation  
Description

Set Up/  
Run Hours

Tool ID

Tool #

Plan  
Code

Accept  
Qty

Reject  
Qty

Reject  
Number

Insp.  
Stamp

Draw Nbr

Revision Nbr

DSI 9527

rev A

IIN-D206-559

rev L

100

0.00

\*100\*

DC

Document Control

DOCUMENT CONTROL

Memo

Photocopy bluefile and create labels per PPPD206-559-011 CHG007

0.00

160

Pick Kit

0.00

\*160\*

Packaging

Packaging

Memo

0.00

1 JH ML5 13-7-10

1 13-07-10 JB

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
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Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
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Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge  <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Work Order ID 102944

\*102944\*

Page 2

June-12-13 9:17:12 AM

Item ID: D206-559-011

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID:

Stop \*NS2\*

Item Name: Bearpaw

Start Date: 6/11/13 Start Qty: 1.00 \*1\*

Cust Item ID:

Required Date: 6/11/13 Req'd Qty: 1.00 \*1\*

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start \*NR1\*

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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170

QC4- 100% Inspect kits for completeness

0.00

\*170\*

QC

Memo

0.00

Quality Control

180

Packaging

0.00

\*180\*

Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPPD206-559-011

Location: all Revo

190

QC21- Final Inspection - Work Order Release

0.00

\*190\*

QC

Memo

0.00

Quality Control

① 13/7/12 sf

13/7/17 sf

130716

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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# Picklist Print

June-12-13 9:17:11 AM

Page 1

Work Order ID: 102944

Parent Item: D206-559-011

Parent Item Name: Bearpaw

Start Date: 6/11/13

Required Date: 6/11/13

Start Qty: 1.00

Required Qty: 1.00

## Comments:

IPP Rev: C04.02.17 Blank size changed KJ/JLM

IPP Rev: D 07-01-02 Was K10007 JLM

IPP Rev: E 08-05-05 up a chg DD verified by: EC

IPP Rev: F 08-10-15 New Manufacturing Method JLM Verified By: EC IPP Rev G

10.10.04 per DSI9527 EC verified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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AN4-17A  
Bolt

Purchased

No

160

Each

412.0000

8

8

- 20

### Location

### Loc Qty

### Loc Code

ST357

1

122416

1

ST515

12

124092

12

ST517

399

124858

399

124858

AN4-20A  
Bolt

Purchased

No

160

Each

395.0000

8

8

- 20

### Location

### Loc Qty

### Loc Code

GA

51

116419

51

ST517

344

121060

8

124215

336

124215

AN960JD416  
Washer

NAS1149D0463J

Purchased

No

160

Each

0.0000

16

16

- 20

D2182B

Rubber Cushion

Manufactured

No

160

f

359.3633

1.666

1.666

- 20

13-07-10

### Location

### Loc Qty

### Loc Code

ST412

359.36334

101827

350

93429

9.36334

101827

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
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### FAULT CATEGORY

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# Picklist Print

June-12-13 9:17:11 AM

Page 2

Work Order ID: 102944  
Parent Item: D206-559-011  
Parent Item Name: Bearpaw

Start Date: 6/11/13 Required Date: 6/11/13  
Start Qty: 1.00 Required Qty: 1.00

**D2274**  
Radius Block

Manufactured No

160 Each 498.0000

**8** 100976-20

SKP

Location	Loc Qty	Loc Code
FG	2	
85455	12	
86855	2	
ST007	100	
101413	4	
96580	96	
ST008	384	
101410	4	
65047	4	
86855	4	
92418	7	
95118	4	
95412	6	
99005	355	

**D2435**  
Bearpaw, 206

Manufactured No

160 Each 2.0000

**2** **2**

SKP

Location	Loc Qty	Loc Code
ST007	1	
84802	1	
ST269	1	
102101	1	

**D2438**  
Clamp

Manufactured No

160 Each 55.0000

84802  
102101  
**4** 95474-20 13-07-00

SKP

Location	Loc Qty	Loc Code
FG	4	
87532	4	
ST456	51	
77038	5	
86871	6	
98430	40	

June-12-13 9:17:11 AM

Shop Packet Print

Page 2

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

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# Picklist Print

June-12-13 9:17:11 AM

Page 3

Work Order ID: 102944

Parent Item: D206-559-011

Parent Item Name: Bearpaw

Start Date: 6/11/13

Required Date: 6/11/13

Start Qty: 1.00

Required Qty: 1.00

D2529

Washer

Shp

Manufactured No

160 Each 482.0000

8

8 - 10

## Location

## Loc Qty

## Loc Code

ST011

482

71161

8

99048

474

99048

VIS2104214

Nut

Sm

Purchased No

160 Each 2,576.0000

8

8

- 10

## Location

## Loc Qty

## Loc Code

FP001

50

122452

38

8182

12

ST314

1000

m125708

1000

st507

1288

125535

1288

ST518

238

124231

238

125708

QS200-M44S

Clamp

Shp

Purchased No

160 Each 25.0000

2

2

- 10 13-07-10

## Location

## Loc Qty

## Loc Code

ST453

25

115589

1

119436

2

123627

12

125957

10

123627

June-12-13 9:17:11 AM

Shop Packet Print

Page 3

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



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Work Order update only ☐

Work Order: _____  Part No. _____  NCR No. _____	<b>DISPOSITION</b>  Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Suspected Unapproved <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b>  <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric <input type="checkbox"/> Cracks <input type="checkbox"/> Crimp/Kink/Ripple/Wave <input type="checkbox"/> Cuffs <input type="checkbox"/> Crushing <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Marks/Chatter <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damage/Defect <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drawing <input type="checkbox"/> Drill Holes <input type="checkbox"/> Finish <input type="checkbox"/> Fit/Function	<input type="checkbox"/> Folio/Program <input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete/Unqualified <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Misaligned/off center <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Off-set <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence	<input type="checkbox"/> Outside Dimensions <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Set-up <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D206-559 REV. K OR EARLIER AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D206-559 REV. 2 OR EARLIER

REF. TCCA STC: SH92-17

REF. FAA STC: SH1031NE

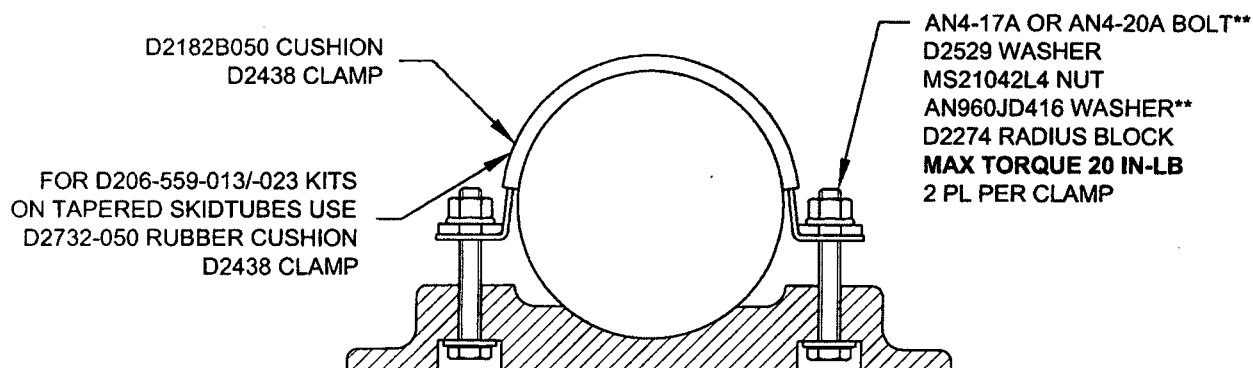
## PURPOSE:

For D206-559-011/-013/-021/-023/-031/-033 bearpaw kits, the AN4 bolts specified were for installation with the aft skidtube wearshoe removed. Bolt lengths are increased to accommodate installation with the skidtube wearshoe installed, which is more practical.

## CHANGE:

The parts list is updated as shown on sheet 2 of this service instruction, for bearpaw kits: D206-559-011 at CHG 007, D206-669-013 at CHG 006, D206-559-021 at CHG 008, D206-559-023 at CHG 007, D206-559-031 at CHG 002, and D206-559-033 at CHG 002.

Figure 4 of D206-559 and Figure 32-3 of ICA-D206-559 are amended as follows:



\*\*USE AN4-17A BOLTS WITH AN AN960JD416 (OR NAS1149D0463J) WASHER IF INSTALLING BEARPAW ON 3.0" DIA. TUBE OR SMALLER. USE AN4-20A BOLTS WITH TWO AN960JD416 WASHERS IF INSTALLING BEARPAW ON TUBE LARGER THAN 3.0" DIAMETER (DART TUBE). ADDITIONAL AN960JD416 WASHERS MAY BE ADDED UNDER NUT TO ENSURE 2-4 THREADS IN SAFETY. IT IS ALSO ACCEPTABLE TO USE LONGER/SHORTER AN4 BOLTS IF REQUIRED TO ENSURE BEARPAW IS HELD SECURELY.

FIGURE 4: TYPICAL CLAMPING DETAIL (D206-559)  
FIGURE 32-3: TYPICAL CLAMPING DETAIL (ICA-D206-559)

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY: *[Signature]*  
D. SHEPHERD (DE # 02)  
DATE: 10.06.30  
CERT. NO.: SH92-17  
ISSUE NO.: 7

A	NEW ISSUE	CP	10.06.30
REV.	DESCRIPTION	BY	DATE
DESIGN	<i>[Signature]</i>	<b>DART AEROSPACE LTD</b>	
DRAWN	<i>[Signature]</i>	HAWKESBURY, ONTARIO, CANADA	
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9527	SHEET 1 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	BOLT CHANGE	NTS
DATE	10.06.30	COPYRIGHT © 2010 BY DART AEROSPACE LTD	
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102944  
1306-13  
M8

5.0 PARTS LIST (D206-559 REV. K)  
32.7 PARTS LIST (ICA-D205-559 REV. 2)

Qty -011	Qty -013	Qty -021	Qty -023	Qty -031	Qty -033	Qty -113	Part Number	Description
X							D206-559-011	Bearpaw Kit 206 A/B
	X						D206-559-013	Bearpaw Kit 206 L/L1/L3/L4/407
		X					D206-559-021	Narrow Bearpaw Kit 206 A/B
			X				D206-559-023	Narrow Bearpaw Kit 206 L/L1/L3/L4/407
				X			D206-559-031	Wearplate Kit
					X		D206-559-033	Wearplate Kit
						X	D407-559-113	Large Bearpaw Kit 206 L/L1/L3/L4/407
4	6	4	6				D2182B050	RUBBER CUSHION
8	12	8	12			20	D2274	RADIUS BLOCK
2							D2435	19" X 16" BEARPAW
	2						D2432F	19" X 24" BEARPAW
		2					D2671	13" X 16" BEARPAW
			2				D2672F	13" X 24" BEARPAW
4	6	4	6				D2438	CLAMP
8	12	8	12				D2529	WASHER
	6		6				D2732-050	RUBBER CUSHION
						2	D3456-1	WASHER
					2		D3859-041	WEARPLATE
				2			D3860-041	WEARPLATE
						2	D4010-041	BEARPAW ASSEMBLY
						8	D4011-1	CLAMP, SHORT
						2	D4011-3	CLAMP, LONG
						8	D4011-5	CLAMP, SHORT (OEM)
						10	D4012-1	CUSHION
						2	AN4C10A	BOLT
8	12	8	12	8	12		AN4-17A	BOLT
8	12	8	12	8	12		AN4-20A	BOLT (WAS AN4-15A)
						4	AN4C13A	BOLT
						8	AN4C15A	BOLT
						8	AN4C17A	BOLT
16	24	16	24				AN960JD416	WASHER (OR NAS1149D0463J)
8	12	8	12	8	12		MS21042L4	NUT (OR MS21042-4)
						20	MS21043-4	NUT
				8	12		NAS1149D0463J	WASHER (OR AN960JD416)
2		2					QS200M44S	CLAMP

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01




APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 10.06.30

CERT. NO.: SH92-17

ISSUE NO.: 7

DESIGN		<b>DART AEROSPACE LTD</b>	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9527	SHEET 2 OF 2
APPROVED		TITLE	SCALE
DE APPR.		BOLT CHANGE	NTS
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